March 12, 2008

Category 5 of Iowa's Final 2006 Integrated Report (IR) as submitted to U.S. EPA for approval.

[Revisions made by IDNR from December 2007 through February 2008 in response to EPA review and comments.]

Category 5 waters: impaired by a pollutant and in need of a TMDL (i.e., the state's Section 303(d) list)

Category 5a: cause of impairment known

Category 5b: cause of impairment unknown

Waterbodies are listed hydrologically by major basin and by subbasin (I.e., by waterbody ID number).

IR Category	Waterbody ID Number	Waterbody Name	Segment Description	Designated Use Impaired	Cause / Stressor	Rationale for 303(d) listing	Data Source	Impairment also on 2004 list?	Priority for TMDL development
5a	IA 01-MAQ-0005-L_0	Shrickers Slough	Clinton Co.; entire wetland	aquatic life	algae	impacts to backwater of UMR	LTRMP ambient monitoring, 2002-04	Y	Low
5a	IA 01-MAQ-0005-L_0	Shrickers Slough	Clinton Co.; entire wetland	aquatic life	turbidity	impacts to backwater of UMR	LTRMP ambient monitoring	Y	Low
5b	IA 01-MAQ-0030_1	Elk River	mouth to North Branch Elk River	aquatic life	biological, fish / invertebrates	low biotic index	IDNR/UHL biocriteria monitoring	Y	Low
5b	IA 01-MAQ-0060_1	Maquoketa River	from N. Fk. Maquoketa R. to Farm Cr. (Jones Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-MAQ-0060_2	Maquoketa River	from Farm Cr. (Jones Co.) to Plum Cr. (Delaware Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-MAQ-0060_3	Maquoketa River	from Plum Cr. (Delaware Co.) to Quaker Mills Dam	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002; IDNR Fisheries biological monitoring in 2002	N	Low

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5a	IA 01-MAQ-00680_L	Silver Lake	Delaware Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: Chl-a trophic state index > 70.	ISU statewide lakes survey, 2000-04	N	High
5a	IA 01-MAQ-00680_L	Silver Lake	Delaware Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	High
5a	IA 01-MAQ-00680_L	Silver Lake	Delaware Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	High
5a	IA 01-MAQ-0090-L_0	Backbone Lake	Delaware Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	Y	Medium
5b	IA 01-MAQ-0130_0	Prairie Creek	mouth to Jackson Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biocriteria monitoring	Y	High
5b	IA 01-MAQ-0200_0	Silver Creek	mouth to Jones Co. tributary	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-MAQ-0210_0	Buck Creek	mouth to Delaware Co. tributary	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low

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5b	IA 01-MAQ-0220_1	Plum Creek	mouth to Delaware Co. tributary	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5a	IA 01-NEM-0010_1	Mississippi River	from Iowa River to LD 15 at Davenport, Scott Co.	primary contact	indicator bacteria	listing by adjacent state in 2006	Illinois EPA	N	Low
5a	IA 01-NEM-0010_2	Mississippi River	from LD 15 at Davenport to LD 14 at Le Claire, Scott Co.	aquatic life	aluminum	violations of chronic WQ criterion	Illinois EPA ambient WQ monitoring, 2000-03	N	Low
5a	IA 01-NEM-0010_2	Mississippi River	from LD 15 at Davenport to LD 14 at Le Claire, Scott Co.	drinking water	arsenic	violations of human health criterion (0.18 ug/l)	USGS ambient WQ monitoring, 2002-04	Y	Low
5a	IA 01-NEM-0010_2	Mississippi River	from LD 15 at Davenport to LD 14 at Le Claire, Scott Co.	primary contact	indicator bacteria	listing by adjacent state in 2006	Illinois EPA	N	Low
5a	IA 01-NEM-0010_3	Mississippi River	from LD 14 at Le Claire to Wapsipinicon River	primary contact	indicator bacteria	listing by adjacent state in 2006	Illinois EPA	N	Low
5a	IA 01-NEM-0010_4	Mississippi River	from Wapsipinicon R. to LD 13 at Clinton	aquatic life	aluminum	violations of chronic WQ criterion	Illinois EPA ambient WQ monitoring, 2000-03	N	Low
5a	IA 01-NEM-0010_4	Mississippi River	from Wapsipinicon R. to LD 13 at Clinton	primary contact	indicator bacteria	listing by adjacent state in 2006	Illinois EPA	N	Low
5a	IA 01-NEM-0010_4	Mississippi River	from Wapsipinicon R. to LD 13 at Clinton	aquatic life	nutrients	aesthetically objectionable conditions and nuisance aquatic life.	ADM slime studies	Y	Low
5a	IA 01-NEM-0030_1	Mississippi River	from LD 11 at Dubuque to LD 10 at Guttenberg	aquatic life	aluminum	violations of chronic WQ criterion	Illinois EPA ambient WQ monitoring, 2000-03	N	Low
5a	IA 01-NEM-0060_1	Duck Creek	from mouth to County Road	primary contact	indicator bacteria	geometric mean > WQ criterion	Volunteer samples analyzed by Davenport WPC and by UHL.	N	Low

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5b	IA 01-NMQ-0010_2	North Fork Maquoketa River	from Lytle Cr. to Whitewater Cr.	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-NMQ-0040_0	Farmers Creek	mouth to Jackson Co. tributary	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biocriteria	Y	High
5b	IA 01-NMQ-0100_1	Whitewater Creek	mouth (Jones Co.) to Curran Branch (Dubuque Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-NMQ-0110_0	Johns Creek	mouth to Bakers Cr. (Dubuque Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-NMQ-0111_0	Johns Creek	from Bakers Cr. (Dubuque Co.) to headwaters	aquatic life	biological	fish kill in 2005	IDNR fish kill investigation	N	Low
5b	IA 01-NMQ-0140_0	Bear Creek	mouth (Dubuque Co.) to Delaware Co. tributary	aquatic life	ammonia	fish kills in 2002, 2004 and 2005	IDNR fish kill investigations	Y	Low
5b	IA 01-NMQ-0141_0	Bear Creek	from Delaware Co. tributary to headwaters	aquatic life	ammonia	fish kills in 2004 and 2005	IDNR fish kill investigations	N	Low
5b	IA 01-NMQ-0160_0	Hickory Creek	mouth to Dubuque Co. tributary	aquatic life	biological: fish, invertebrates	low biotic index; impairments potentially include siltation and/or organic enrichment	IDNR/UHL biocriteria sampling, 1999	Y	High

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5b	IA 01-NMQ-0160_0	Hickory Creek	mouth to Dubuque Co. tributary	aquatic life	habitat alterations	low biotic index	IDNR/UHL biocriteria sampling, 1999	Y	High
5b	IA 01-TRK-0010_1	Pleasant Creek	mouth to W line, S11, T85N, R4EW, Jackson Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002	N	Low
5b	IA 01-TRK-0090_1	Tetes Des Morts Creek	mouth (Dubuque Co.) to Lux Cr. (Jackson Co.)	aquatic life	biological	fish kill in 2005	IDNR fish kill investigation	N	Low
5b	IA 01-TRK-0090_1	Tetes Des Morts Creek	mouth (Dubuque Co.) to Lux Cr. (Jackson Co.)	aquatic life	biological (potentially includes siltation and/or organic enrichment)	low biotic index	IDNR/UHL biocriteria sampling, 2001	Y	High
5b	IA 01-TRK-0090_1	Tetes Des Morts Creek	mouth (Dubuque Co.) to Lux Cr. (Jackson Co.)	aquatic life	habitat alterations	low biotic index	IDNR/UHL biocriteria sampling, 2001	Y	High
5b	IA 01-TRK-0180_2	Middle Fork Little Maquoketa River (aka, Bankston Creek)	W line S31, T90N, R1E to N line S33, T90N, R1W, Dubuque Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2004	N	High
5b	IA 01-TRK-0240_0	Point Hollow Creek (aka, White Pine Creek)	mouth (Clayton Co.) to spring source (Dubuque Co.)	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2003 and UHL biological monitoring in 2004	N	High
5b	IA 01-TRK-02415_0	Unnamed Tributary to Point Hollow Creek	mouth to headwaters, Dubuque Co.	aquatic life	biological (fish kill attributed to ammonia and organic enrichment/low DO: source unknown)	fish kill in 2004	IDNR fish kill investigation	N	Low
5b	IA 01-TRK-0260_0	Pecks Creek	mouth to S line, S15,T91N,R3W, Clayton Co.	aquatic life	biological (potentially includes organic enrichment)	low biotic index for coldwater streams	IDNR/UHL REMAP sampling, 2002	Y	High
5b	IA 01-TRK-0260_0	Pecks Creek	mouth to S line, S15,T91N,R3W, Clayton Co.	aquatic life	habitat alterations	low biotic index for coldwater streams	IDNR/UHL REMAP sampling, 2002	Y	High

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5b	IA 01-TRK-0360_3	Roberts Creek	from Silver Cr. to Clayton Co. tributary	aquatic life	biological (fish kill attributed to ammonia and organic enrichment/low DO: source unknown)	fish kill in 2005; low biotic index	IDNR fish kill investigation; IDNR/UHL biological monitoring in 2000 (biocriteria) and 2002 (REMAP)	N	Low
5b	IA 01-TRK-0360_3	Roberts Creek	from Silver Cr. to Clayton Co. tributary	aquatic life	biological (potentially includes habitat alterations and siltation	low biotic index	IDNR/UHL biological monitoring: biocriteria in 2000 and REMAP in 2002	Y	Low
5b	IA 01-TRK-0381_0	Silver Creek	mouth to Clayton Co. tributary	aquatic life	biological (potentially includes siltation and/or organic enrichment)	low biotic index	IDNR/UHL biocriteria sampling, 2000	Y	High
5b	IA 01-TRK-0381_0	Silver Creek	mouth to Clayton Co. tributary	aquatic life	habitat alterations	low biotic index	IDNR/UHL biocriteria sampling, 2000	Y	High
5b	IA 01-TRK-04515_0	Unnamed tributary to Bass Creek	mouth to headwaters, Fayette Co.	aquatic life	biological (fish kill attributed to ammonia and organic enrichment/low DO: source unknown)	fish kill in 2004	IDNR fish kill investigation	N	Low
5b	IA 01-UIA-0010_1	Paint Creek	mouth to L. Paint Cr. (Allamakee Co.)	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 2000	Y	Low
5a	IA 01-UIA-0090_0	Upper Iowa River	mouth to RM 6 (=Lane's Bridge) Allamakee Co.	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Medium
5a	IA 01-UIA-0090_0	Upper Iowa River	mouth to RM 6 (=Lane's Bridge) Allamakee Co.	fish consumption	mercury	> IDNR/IDPH trigger level for 1 meal /week advisory: consumption advisory issued in 2006	fish contaminant (RAFT) monitoring	N	Low
5a	IA 01-UIA-0100_0	Upper Iowa River	from RM 6 (=Lanes Br.) to Canoe Cr. (Winneshiek Co.)	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Medium

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5a	IA 01-UIA-0100_0	Upper Iowa River	from RM 6 (=Lanes Br.) to Canoe Cr. (Winneshiek Co.)	fish consumption	mercury	> IDNR/IDPH trigger level for 1 meal /week advisory: consumption advisory issued in 2006	fish contaminant (RAFT) monitoring	N	Low
5a	IA 01-UIA-0110_2	Upper Iowa River	from Trout Cr (dstr. Freeport) to Tenmile Cr.	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	Medium
5a	IA 01-UIA-0110_2	Upper Iowa River	from Trout Cr (dstr. Freeport) to Tenmile Cr.	fish consumption	mercury	> IDNR/IDPH trigger level for 1 meal /week advisory: consumption advisory issued in 2006	fish contaminant (RAFT) monitoring	N	Low
5b	IA 01-UIA-0110_2	Upper Iowa River	from Trout Cr (dstr. Freeport) to Tenmile Cr.	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-UIA-0110_3	Upper Iowa River	from Tenmile Cr. to Silver Cr. (Winneshiek Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-UIA-0120_1	Upper Iowa River	from Silver Cr. (nr Bluffton) to Silver Cr. (nr Kendalville)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low

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5b	IA 01-UIA-0170_2	Bear Creek	from N. Bear Cr. to Mestad Spring (Winneshiek Co.)	aquatic life	biological	runoff-related fish kill in 1999; no cause or source identified	IDNR fish kill investigation	Y	High
5b	IA 01-UIA-0380_0	East Pine Creek	mouth (Winneshiek Co. to IA/MN state line	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2003 and UHL biological monitoring in 2003	N	High
5a	IA 01-VOL-00130_L	Frog Hollow Lake (aka Volga Lake)	Fayette Co.; entire lake	primary contact	algae	worsening trend in levels of chlorophyll-a	ISU statewide lakes survey, 2000-04	N	High
5b	IA 01-VOL-0120_2	Brush Creek	from Bear Cr. to E line, S17,T92N,R7W, Fayette Co.	aquatic life	biological	low biotic index	UHL special project monitoring in 2004	N	Low
5a	IA 01-WPS-0010_1	Wapsipinicon River	mouth to Silver Cr. near DeWitt (Clinton Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Low
5a	IA 01-WPS-0010_2	Wapsipinicon River	from Silver Cr. to Rock Cr. (Clinton Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Low
5b	IA 01-WPS-0010_4	Wapsipinicon River	from Plum Cr. (Clinton Co.) to Walnut Cr. (Jones Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5a	IA 01-WPS-0010_5	Wapsipinicon River	from Walnut Cr. (Jones Co.) to Buffalo Cr. at Anamosa	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	Low

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5b	IA 01-WPS-0010_5	Wapsipinicon River	from Walnut Cr. (Jones Co.) to Buffalo Cr. at Anamosa	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5a	IA 01-WPS-0020_3	Wapsipinicon River	from Pine Cr. (Buchanan Co.) to Harter Cr. (Buchanan Co.)	primary contact	indicator bacteria	> 10% of samples > single-sample criterion	IDNR ambient WQ monitoring from 2002-04	N	Low
5a	IA 01-WPS-0020_4	Wapsipinicon River	from Harter Cr. to L. Wapsipinicon R. (Buchanan Co.)	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Low
5b	IA 01-WPS-0020_6	Wapsipinicon River	from Crane Cr. to E. Fk. Wapsipinicon R. (Bremer Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-WPS-0030_1	Wapsipinicon River	from L. Wapsipinicon R. to tributary 4 mi NNE Bassett	aquatic life	biological: freshwater mussels, fish, & invertebrates	> 50% decline in mussel species richness; low biotic index: impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study; IDNR/UHL biological monitoring	Y	Low
5b	IA 01-WPS-0030_5	Wapsipinicon River	from McIntyre to N line S20, T100N, R5W, Mitchell Co.	aquatic life	biological (potentially includes ammonia, organic enrichment, and/or siltation)	low biotic index; fish kill in 2002	IDNR/UHL biological monitoring; fish kill investigation	Y	High
5a	IA 01-WPS-00375-L_0	Lake Hendricks	Howard Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index > 65.	ISU statewide lake survey, 2000-2004	Y	Medium

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5a	IA 01-WPS-00375-L_0	Lake Hendricks	Howard Co.; entire lake	primary contact	organic enrichment/low DO	aesthetically objectionable conditions: chlorophyll-a trophic state index > 65.	ISU statewide lake survey, 2000-2004	Y	Medium
5b	IA 01-WPS-0050_0	Brophy Creek	mouth to Cherry Cr., Clinton Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2004	N	Low
5b	IA 01-WPS-0109_0	Walnut Creek	mouth to White Oak Cr. (Jones Co.)	aquatic life	biological (fish kill due to ammonia and organic enrichment/low DO: source biological)	fish kill in 1999 caused by feedlot runoff	IDNR fish kill investigation	Y	Low
5b	IA 01-WPS-0130_1	Buffalo Creek	from Coggon Impoundment to Buchanan Co. tributary	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-WPS-0130_2	Buffalo Creek	from Buchanan Co. tributary to E. Br. & W. Br. Buffalo Cr.	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 01-WPS-0270_0	Unnamed tributary to Buffalo Creek	mouth to headwaters, Buchanan Co.	aquatic life	biological	fish kill in 2005	IDNR fish kill investigation	N	Low
5b	IA 01-YEL-0010_2	Miners Creek	Hwy 52 bridge to W line, S1,T92N,R3W, Clayton Co.	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 2001	N	High
5b	IA 01-YEL-0040_0	North Cedar Creek	mouth to W line, S24, T94N, R4W, Clayton Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000	N	High

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5a	IA 01-YEL-0070_0	Yellow River	mouth to Allamakee Co. Rd. X-26	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Medium
5b	IA 01-YEL-0080_2	Yellow River	old Hwy 51 crossing to N. Fk. Yellow R. (Winneshiek Co.)	aquatic life	biological (potentially includes habitat alterations)	low biotic index; fish kill in 2000	IDNR fish kill investigation; IDNR/UHL biological monitoring	Y	High
5a	IA 01-YEL-0100_0	Suttle Creek	mouth to Clayton/Allamakee county line	aquatic life	low dissolved oxygen	> 10% of samples violate WQ criteria	IDNR/UHL ambient WQ monitoring, 2004	N	High
5a	IA 01-YEL-0110_0	Unnamed Creek (aka, Bear Creek)	mouth to north line, S12, T96N, R5W, Allamakee Co.	aquatic life	low dissolved oxygen	> 10% of samples violate WQ criteria	IDNR/UHL ambient WQ monitoring, 2004	N	High
5a	IA 01-YEL-0130_0	Norfolk Creek	mouth to Teeple Creek, Allamakee Co.	aquatic life	low dissolved oxygen	> 10% of samples violate WQ criteria	IDNR/UHL ambient WQ monitoring, 2004	N	High
5b	IA 01-YEL-0155_0	Unnamed Creek (aka Hecker Creek)	mouth to headwaters at Postville, Allamakee Co.	general use	biological	fish kill in 2000; low biotic index	IDNR fish kill investigation in 2000; IDNR/UHL biological monitoring in 2000	Y	High
5a	IA 02-CED-0020_2	Cedar River	Rock Run Cr. (Cedar Co.) to Hwy 30 (Linn Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5b	IA 02-CED-0020_2	Cedar River	Rock Run Cr. (Cedar Co.) to Hwy 30 (Linn Co.)	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5a	IA 02-CED-0020_3	Cedar River	Hwy 30 (Linn Co.) to Prairie Cr. (Linn Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High

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5a	IA 02-CED-0030_1	Cedar River	from Prairie Cr. (Linn Co.) to McCloud Run (Linn Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 02-CED-0030_2	Cedar River	from McCloud Run (Linn Co.) to Bear Cr nr. Palo (Linn Co.)	primary contact	indicator bacteria	> 10% of samples > single-sample criterion	IDNR ambient WQ monitoring from 2002-04	N	High
5a	IA 02-CED-0040_1	Cedar River	from Wolf Cr. to LaPorte City bridge crossing	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 02-CED-00485-L_0	George Wyth Lake	Black Hawk Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	Y	Medium
5a	IA 02-CED-0050-L_0	Cedar River	Cedar Falls Impoundment	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 02-CED-0110_2	Cedar River	from Charles City dam to Rock Cr., Floyd Co.	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	High
5a	IA 02-CED-0110_2	Cedar River	from Charles City dam to Rock Cr., Floyd Co.	fish consumption	mercury	> IDNR/IDPH trigger level for 1 meal /week advisory: consumption advisory issued in 2006	fish contaminant (RAFT) monitoring	N	Low
5a	IA 02-CED-0110_3	Cedar River	from Rock Cr. (Floyd Co.) to IA/MN state line	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	High
5a	IA 02-CED-0110_3	Cedar River	from Rock Cr. (Floyd Co.) to IA/MN state line	fish consumption	mercury	> IDNR/IDPH trigger level for 1 meal /week advisory: consumption advisory issued in 2006	fish contaminant (RAFT) monitoring	N	Low

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5b	IA 02-CED-0110_3	Cedar River	from Rock Cr. (Floyd Co.) to IA/MN state line	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5b	IA 02-CED-0157_1	Pike Run	mouth to Muscatine Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 2004	N	Low
5b	IA 02-CED-0170_1	Sugar Creek	mouth (at Cedar R.) to Mud Cr (Muscatine Co.)	aquatic life	Biological	low biotic index	IDNR/UHL biological monitoring	Y	Low
5b	IA 02-CED-0210_1	Indian Creek	mouth to Dry Cr. near Marion (Linn Co.)	aquatic life	biological (potentially includes habitat alterations)	low biotic index	IDNR/UHL biological monitoring	Y	Low
5a	IA 02-CED-0218_0	McCloud Run	mouth to headwaters in Cedar Rapids (Linn Co.)	aquatic life	unknown toxicity	fish kills in 2001, 2004 and 2005	IDNR fish kill investigations	N	Low
5a	IA 02-CED-02250_L	Cedar Lake	at Cedar Rapids	fish consumption	priority organics (PCBs)	> IDNR/IDPH trigger level for 1 meal /week advisory	fish contaminant (RAFT) monitoring	N	Low
5b	IA 02-CED-0234_0	East Branch Blue Creek	from Blue Creek to headwaters	aquatic life	ammonia	fish kills in 2003, 2004 and 2005	IDNR fish kill investigations	N	Low
5b	IA 02-CED-0270_1	Lime Creek	mouth (Benton Co.) to Buchanan Co. tributary	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	High
5a	IA 02-CED-03060_L	Casey Lake (aka, Hickory Hills Lake)	Tama Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium
5a	IA 02-CED-03060_L	Casey Lake (aka, Hickory Hills Lake)	Tama Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium

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5b	IA 02-CED-0370_2	Black Hawk Creek	from Hwy 58 at Hudson to N. Fk. Black Hawk Cr.	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological monitoring	N	Low
5b	IA 02-CED-0390_0	Dry Run	mouth to Black Hawk Co. tributary	aquatic life	biological (potentially includes industrial point source, and urban runoff/storm sewers)	low biotic index	IDNR/UHL biological monitoring	Y	High
5b	IA 02-CED-0490_1	Burr Oak Creek	mouth to Mitchell Co. Road T46	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	low biotic index	IDNR/UHL biological monitoring	N	High
5a	IA 02-CED-0505_1	Unnamed Creek (aka Drainage Ditch 3)	mouth (Charles City) to confluence with unnamed tributary in T95N R16W Sec 4, Floyd Co.	general use	chlorine	fish kill in 2001	IDNR fish kill investigation	Y	Low
5b	IA 02-ICD-0031_1	Cottonwood Drain	mouth to Des Moines County tributary	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring	N	Low
5a	IA 02-ICM-0010_1	Mississippi River	from Skunk R. to Burlington	primary contact	indicator bacteria	listing in 2006 by adjacent state	Illinois EPA	N	Low
5a	IA 02-ICM-0010_2	Mississippi River	from Burlington to Iowa River	aquatic life	aluminum	violations of chronic WQ criterion	Illinois EPA ambient WQ monitoring, 2000-03	N	Low
5a	IA 02-ICM-0010_2	Mississippi River	from Burlington to Iowa River	drinking water	arsenic	violations of human health criterion (0.18 ug/l)	Illinois EPA ambient WQ monitoring, 2000-03	N	Low
5a	IA 02-ICM-0010_2	Mississippi River	from Burlington to Iowa River	primary contact	indicator bacteria	listing by adjacent state in 2006	Illinois EPA	N	Low
5b	IA 02-IOW-0020_1	Iowa River	from Cedar R. to Johnson/Washington Co. line	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low

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5b	IA 02-IOW-0020_2	Iowa River	from Johnson/Washington Co. line to English R.	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Low
5a	IA 02-IOW-0030_1	Iowa River	from English R. to Burlington St. dam in Iowa City	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient (city) WQ monitoring, 2002-04	Y	Low
5b	IA 02-IOW-0030_1	Iowa River	from English R. to Burlington St. dam in Iowa City	aquatic life	biological: freshwater mussels	> 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation	ISU freshwater mussel study	Y	Medium
5a	IA 02-IOW-00390-L_0	Lake MacBride	Johnson Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	N	High
5a	IA 02-IOW-0040-L_0	Coralville Reservoir	Johnson Co.; entire reservoir	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-04	N	Low
5a	IA 02-IOW-0050_1	Iowa River	upper end Coralville Reservoir to Hwy 149	primary contact	indicator bacteria	geometric mean > WQ criterion	UI/ACOE ambient water quality monitoring	Y	Low
5a	IA 02-IOW-0060_4	Iowa River	from Timber Cr. to Asher Cr (Marshall Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient (city) WQ monitoring, 2002-04	Y	Low
5a	IA 02-IOW-0060_5	Iowa River	from Asher Cr. to Minerva Cr. (Marshall Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient (city) WQ monitoring, 2002-04	Y	Low
5a	IA 02-IOW-0070_3	Iowa River	from S. Fk. Iowa R. to Pine Creek, Hardin Co.	primary contact	indicator bacteria	> 10% of samples > single-sample criterion	IDNR ambient WQ monitoring from 2002-04	N	Low

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5a	IA 02-IOW-0080_2	Iowa River	from DD No. 3 (=Wheeler Cr.) to Hwy 69 at S edge of Belmond	primary contact	indicator bacteria	> 10% of samples > single-sample criterion	IDNR ambient WQ monitoring from 2002-04	N	Low
5b	IA 02-IOW-0093_0	Honey Creek	mouth to road crossing in S25, T76N, R5W, Louisa Co.	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 2004	N	Low
5a	IA 02-IOW-01150_L	Iowa Lake	Iowa Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium
5a	IA 02-IOW-01150_L	Iowa Lake	Iowa Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium
5b	IA 02-IOW-0150_1	Old Mans Creek	mouth to unnamed tributary SW of Iowa City	aquatic life	biological	low biotic index	IDNR/UHL REMAP sampling, 2004	N	Low
5b	IA 02-IOW-0150_2	Old Mans Creek	from tributary SW of Iowa City to tributary SW of Cosgrove	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 2000	N	Low
5a	IA 02-IOW-0155_1	Ralston Creek	mouth to unnamed tributary from south	general use	priority organics	coal tar site; studies suggest influence on surface water	Coal tar studies in 1995, 1998, and 2001.	Y	Low
5a	IA 02-IOW-0161_0	Clear Creek	T80N R9W Sec22 to headwaters (Iowa Co)	general use	organic enrichment/Low DO	aesthetically objectionable conditions	IDNR/IOWATER snapshot monitoring, September 2003	Y	High
5a	IA 02-IOW-01615_0	Unnamed tributary to Clear Creek	mouth S26, T80N, R10W, Iowa Co. to headwaters	general use	organic enrichment/Low DO	aesthetically objectionable conditions	IDNR/IOWATER snapshot monitoring, September 2003	N	Low
5a	IA 02-IOW-0162_0	Muddy Creek	from mouth (Iowa City) to headwaters at North Liberty	general use	sewage sludge; ammonia	violations of narrative criteria	IDNR monitoring in 2005 and 2006	N	High
5b	IA 02-IOW-0180_2	Bear Creek	from L. Bear Cr. (Poweshiek Co.) to tributary NW of Brooklyn	aquatic life	biological	low biotic index	IDNR/UHL REMAP sampling, 2002	N	Low
5b	IA 02-IOW-0187_1	Walnut Creek	from mouth (Benton Co.) to N. Walnut Cr. (Poweshiek Co.)	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL REMAP sampling, 2003	N	High
5b	IA 02-IOW-0187_2	Walnut Creek	from N. Walnut Cr. to unnamed tributary (Poweshiek Co.)	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biocriteria sampling, 1999	Y	High

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5a	IA 02-IOW-02195-L_0	Union Grove Lake	Tama Co.; entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-04; information from IDNR Fisheries.	Y	High
5a	IA 02-IOW-02195-L_0	Union Grove Lake	Tama Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-2004	N	High
5a	IA 02-IOW-02195-L_0	Union Grove Lake	Tama Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	High
5a	IA 02-IOW-02195-L_0	Union Grove Lake	Tama Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-04; information from IDNR Fisheries.	Y	High
5a	IA 02-IOW-0330-L_0	Lower Pine Lake	Hardin Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-2004	N	High
5b	IA 02-IOW-0380_1	East Branch Iowa River	mouth to Hancock Co. tributary N of Goodell SWMA	aquatic life	biological (potentially due to organic enrichment)	low biotic index	IDNR/UHL biocriteria sampling, 2001	Y	Low
5a	IA 02-SHL-00105-L_0	Avenue Of The Saints Lake	Bremer Co.; entire lake	aquatic life	algae	aesthetically objectionable conditions, in part, due to common carp	ISU statewide lakes survey, 2000-04; information from IDNR Fisheries	Y	Medium
5a	IA 02-SHL-00105-L_0	Avenue Of The Saints Lake	Bremer Co.; entire lake	aquatic life	turbidity	aesthetically objectionable conditions, in part, due to common carp	ISU statewide lakes survey, 2000-04; information from IDNR Fisheries	Y	Medium
5a	IA 02-SHL-0020_1	Shell Rock River	from Winnebago R. to Rose Cr. (aka, Plymouth Cr.)	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	Low
5b	IA 02-SHL-0035_0	Palmer Creek	mouth to headwaters (Butler Co.)	aquatic life	ammonia	fish kill in 2002; caused by animal waste; no source identified.	IDNR fish kill investigation	Y	High

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5b	IA 02-SHL-0035_0	Palmer Creek	mouth to headwaters (Butler Co.)	aquatic life	organic enrichment/Low DO	fish kill in 2002; caused by animal waste; no source identified.	IDNR fish kill investigation	Y	High
5b	IA 02-WFC-0110_0	Bailey Creek	mouth to unnamed tributary W of Thornton	aquatic life	biological	low biotic index	IDNR/UHL REMAP sampling, 2003	N	Low
5b	IA 02-WIN-0020_2	Winnebago River	from Pike Run to IA/MN state line	aquatic life	organic enrichment	low biotic index	IDNR/UHL biocriteria sampling, 2000	Y	Low
5a	IA 02-WIN-00450-L_0	Clear Lake	Cerro Gordo Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring from 2002-04	Y	Medium
5a	IA 02-WIN-00465-L_0	Ventura Marsh	Cerro Gordo Co.; entire wetland	aquatic life	algae	aesthetically objectionable conditions, in part, due to common carp	ISU Clear Lake diagonostic/feasibility study, 2001	Y	Low
5a	IA 02-WIN-00465-L_0	Ventura Marsh	Cerro Gordo Co.; entire wetland	aquatic life	turbidity	aesthetically objectionable conditions, in part, due to common carp	ISU Clear Lake diagonostic/feasibility study, 2001	Y	Low
5b	IA 02-WIN-0050_0	Calmus Creek	from mouth to W line, S30, T97N, R20W, Cerro Gordo Co.	aquatic life	biological	common carp prevent growth of wetland vegetation through increased turbidities	Information from IDNR Fisheries Bureau	Y	Low
5b	IA 03-NSK-0020_2	North Skunk River	from the Mahaska/Poweshiek co. line to Sugar Cr.	aquatic life	biological (potentially includes habitat alterations, siltation, turbidity, and suspended solids)	low biotic index	IDNR/UHL biocriteria sampling, 2001	Y	Low
5a	IA 03-NSK-00340-L_0	Rock Creek Lake	Jasper Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring from 2002-04	N	Medium
5b	IA 03-NSK-0039_0	Coal Creek	from mouth (near Delta) to headwaters	general use	ammonia	fish kill in 2003	IDNR fish kill investigation	N	Low
5a	IA 03-SKM-0010_1	Mississippi River	from IA/MO line to Sugar Cr. near Ft. Madison	aquatic life	aluminum	violations of chronic WQ criterion	Illinois EPA ambient WQ monitoring, 2000-03	N	Low

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5a	IA 03-SKM-0010_1	Mississippi River	from IA/MO line to Sugar Cr. near Ft. Madison	drinking water	arsenic	violations of human health criterion (0.18 ug/l)	Illinois EPA ambient WQ monitoring, 2000-03	Y	Low
5a	IA 03-SKM-0010_1	Mississippi River	from IA/MO line to Sugar Cr. near Ft. Madison	primary contact	indicator bacteria	listing by adjacent state in 2006	Illinois EPA	N	Low
5a	IA 03-SKM-0010_2	Mississippi River	from Sugar Creek near Ft. Madison to Skunk River	primary contact	indicator bacteria	listing by adjacent state in 2006	Illinois EPA	N	Low
5a	IA 03-SKU-0010_1	Skunk River	mouth to Big Cr. near Mt. Pleasant, Henry Co.	aquatic life	dieldrin	violations of human health criterion (0.0014 ug/l)	USGS NAWQA monitoring, 1996-1998	Y	Low
5a	IA 03-SKU-00650-L_0	Lake Geode	Henry Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring from 2002-04	N	High
5a	IA 03-SKU-00650-L_0	Lake Geode	Henry Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	High
5a	IA 03-SKU-00650-L_0	Lake Geode	Henry Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	High
5a	IA 03-SKU-0085_0	Saunders Branch	mouth to headwaters in Henry Co.	general use	ammonia	overwhelming evidence of impacts from coal tar site and/or discharge from WWTP	IDNR/UHL biocriteria sampling, 1998	Y	Low
5a	IA 03-SKU-0085_0	Saunders Branch	mouth to headwaters in Henry Co.	general use	organic enrichment/low DO	overwhelming evidence of impacts from coal tar site and/or discharge from WWTP	IDNR/UHL biocriteria sampling, 1998	Y	Low
5a	IA 03-SKU-0085_0	Saunders Branch	mouth to headwaters in Henry Co.	general use	priority organics	overwhelming evidence of impacts from coal tar site and/or discharge from WWTP	IDNR/UHL biocriteria sampling, 1998	Y	Low
5a	IA 03-SKU-00945-L_0	Walton Reservoir	Jefferson Co.; entire lake	drinking water	atrazine	average levels > MCL	Results of Syngenta Inc. monitoring from 2000-02	Y	Low
5b	IA 03-SKU-0130_0	West Fork Crooked Creek	mouth to unnamed tributary in Washington Co.	aquatic life	biological: fish kill	fish kill in 2002	Results of IDNR fish kill investigation.	Y	Low

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5a	IA 03-SKU-01450-L_0	Lake Darling	Washington Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring from 2002-04	N	Medium
5a	IA 03-SSK-0010_3	South Skunk River	from Hwy 63 (Oskaloosa) to Elk Cr. NE of Pella	drinking water	nitrate	> 10% of samples > MCL	IDNR ambient WQ monitoring from 2002-04	Y	Low
5a	IA 03-SSK-00118-L_0	White Oak Conservation Area Lake	Mahaska Co.; entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-04; information from IDNR Fisheries Bureau	Y	Medium
5a	IA 03-SSK-00118-L_0	White Oak Conservation Area Lake	Mahaska Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium
5a	IA 03-SSK-00118-L_0	White Oak Conservation Area Lake	Mahaska Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium
5a	IA 03-SSK-00118-L_0	White Oak Conservation Area Lake	Mahaska Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-04; information from IDNR Fisheries Bureau	Y	Medium
5a	IA 03-SSK-00120-L_0	Lake Keomah	Mahaska Co.; entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-04; information from IDNR Fisheries Bureau	Y	High
5a	IA 03-SSK-00120-L_0	Lake Keomah	Mahaska Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	High
5a	IA 03-SSK-00120-L_0	Lake Keomah	Mahaska Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	High
5a	IA 03-SSK-00120-L_0	Lake Keomah	Mahaska Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-04; information from IDNR Fisheries Bureau	Y	High
5a	IA 03-SSK-0030_2	South Skunk River	from Ames Water Works dam to Co.Rd. 1 mi NNE Story City	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Low

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5b	IA 03-SSK-0030_3	South Skunk River	from Co.Rd. 1 mi NNE Story City to DD 71 Se of Jewell	aquatic life	biological	low biotic index	IDNR/UHL REMAP sampling, 2003	N	Low
5b	IA 03-SSK-0056-L_0	Lake Patoka, Bondurant	Polk Co.; entire lake	general use	chlorine	fish kill in 2005	IDNR fish kill investigation	N	Medium
5b	IA 03-SSK-0057_0	Ballard Creek	mouth to unnamed tributary in Story Co.	aquatic life	ammonia	fish kill in 2002	Results of IDNR fish kill investigation.	Y	Low
5b	IA 03-SSK-0057_0	Ballard Creek	mouth to unnamed tributary in Story Co.	aquatic life	organic enrichment/low DO	fish kill in 2002	Results of IDNR fish kill investigation.	Y	Low
5b	IA 03-SSK-0058_0	Walnut Creek	mouth to Story Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 1999	Y	High
5b	IA 03-SSK-0090_0	Long Dick Creek	mouth to bridge crossing in Hamilton Co., 4 mi N Roland	aquatic life	biological (potentially includes organic enrichment/low DO and/or habitat alterations)	low biotic index	IDNR/UHL biocriteria sampling, 1997 and 2003	Y	High
5b	IA 03-SSK-0091_0	Long Dick Creek	from bridge crossing in Hamilton Co., 4 mi N Roland to headwaters	general use	ammonia	fish kill in 2004	Results of IDNR fish kill investigation.	N	High
5b	IA 03-SSK-0091_0	Long Dick Creek	from bridge crossing in Hamilton Co., 4 mi N Roland to headwaters	general use	organic enrichment/low DO	fish kill in 2004	Results of IDNR fish kill investigation.	N	High
5a	IA 04-EDM-0010_1	East Fork Des Moines River	mouth to Hwy 169 at Devine Access	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	High
5a	IA 04-EDM-0020_4	East Fork Des Moines River	from Soldier Cr. to Tuttle Lake (Emmet Co.)	aquatic life	organic enrichment/low DO	> 10% of samples violate WQ criteria for dissolved oxygen	Minnesota PCA ambient WQ monitoring	Y	Low
5b	IA 04-EDM-0090_2	Buffalo Creek	from Union Slough outlet to L. Buffalo Cr., Kossuth Co.	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological sampling, 2000	Y	Low
5b	IA 04-EDM-0090_3	Buffalo Creek	from L. Buffalo Cr. (Kossuth Co.) to DD 48 (Winnebago Co.)	aquatic life	biological (potentially habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological sampling, 2000	Y	Low

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5a	IA 04-FOX-0010_2	Fox River	from tributary NW of Pulaski to tributary SW Drakesville	aquatic life	ammonia	violations of WQ criteria	USGS WQ monitoring, 1998-99; IDNR/UHL biological (REMAP) monitoring in 2002	Y	Low
5a	IA 04-FOX-0010_2	Fox River	from tributary NW of Pulaski to tributary SW Drakesville	aquatic life	organic enrichment/low DO	violations of WQ criteria	USGS WQ monitoring, 1998-99; IDNR/UHL biological (REMAP) monitoring in 2002	Y	Low
5b	IA 04-FOX-0010_2	Fox River	from tributary NW of Pulaski to tributary SW Drakesville, Davis Co.	aquatic life	habitat alterations	low biotic index	USGS WQ monitoring, 1998-99; IDNR/UHL biological (REMAP) monitoring in 2002	Y	Low
5b	IA 04-LDM-0010_4	Des Moines River	from Chequest Cr. (Van Buren Co.) to Soap Cr. near Eldon, Wapello Co.	aquatic life	biological	fish kills, primarily of shovelnose sturgeon; most recently in 2002 and 2006	IDNR Fisheries Bureau	N	Low
5a	IA 04-LDM-0020_1	Des Moines River	from Soap Cr. to Ottumwa dam	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient (city) WQ monitoring, 2002-04	Y	Low
5b	IA 04-LDM-0020_1	Des Moines River	from Soap Cr. (Wapello Co.) to Ottumwa dam	aquatic life	biological	fish kills, primarily of shovelnose sturgeon; most recently in 2002 and 2006	IDNR Fisheries Bureau	N	Low
5a	IA 04-LDM-0020_2	Des Moines River	from Ottumwa dam to Cedar Cr. near Tracy	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient (city) WQ monitoring, 2002-04	N	Low
5a	IA 04-LDM-00380-L_0	Roberts Creek Lake	Marion Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-04; information from IDNR Fisheries Bureau	Y	Medium

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5a	IA 04-LDM-0040_1	Des Moines River	from upper end of Red Rock Reservoir to South R.	primary contact	indicator bacteria	geometric mean > WQ criterion	ISU/ACOE & IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 04-LDM-0040_2	Des Moines River	from South R. to North R.	primary contact	indicator bacteria	geometric mean > WQ criterion	ISU/ACOE & IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 04-LDM-0040_3	Des Moines River	from North R. to Raccoon R.	primary contact	indicator bacteria	geometric mean > WQ criterion	ISU/ACOE & IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5b	IA 04-LDM-0090_2	Soap Creek	from L. Soap Cr. to Monroe Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) sampling, 2002 and 2004	N	Low
5b	IA 04-LDM-0119_0	Sugar Creek	mouth (at Ottumwa) to headwaters (Wapello Co.)	aquatic life	industrial chemical	fish kill in 2004	IDNR fish kill investigation	N	Low
5b	IA 04-LDM-0130_0	Miller Creek	mouth (S. of Eddyville, Wapello Co.) to headwaters	aquatic life	biological	fish kills in 2000 and 2003	IDNR fish kill investigations	N	Low
5b	IA 04-LDM-0140_1	Muchakinock Creek	mouth (at Eddyville) to L. Muchakinock Cr., Mahaska Co.	aquatic life	biologicals (potentially includes biological toxicity; habitat alterations and/or nutrients)	low biotic index	IDNR/UHL biological sampling, 2000	Y	Low
5b	IA 04-LDM-0140_2	Muchakinock Creek	from L. Muchakinock Cr. to Mahaska Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological sampling, 2000	Y	Low
5a	IA 04-LDM-0200_0	White Breast Creek	from mouth to Little White Breast Cr.	aquatic life	organic enrichment/low DO	FST w/ declining trend in DO levels	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Low
5b	IA 04-LDM-0210_2	White Breast Creek	from Brush Cr. near Lucas to Clarke Co. tributary	aquatic life	biological (potentially includes habitat alterations and siltation)	low biotic index	IDNR/UHL biological monitoring in 2002	Y	Low

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5a	IA 04-LDM-02190-L_0	East Lake (Osceola)	Clarke Co.; entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-04	Y	High
5a	IA 04-LDM-02190-L_0	East Lake (Osceola)	Clarke Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-04	Y	High
5a	IA 04-LDM-02294-L_0	Morris Lake	Lucas Co.; entire lake	drinking water	atrazine	average levels > MCL	Syngenta Inc., VMP	Y	Medium
5b	IA 04-LDM-0270_0	Middle River	from mouth to Clanton Cr. near Martensdale, Warren Co.	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological monitoring in 2002	Y	Low
5a	IA 04-LDM-02718-L_0	Hooper Area Pond	Warren Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Low
5a	IA 04-LDM-02870-L_0	Meadow Lake	Adair Co.; entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-04	Y	Medium
5b	IA 04-LDM-0300_2	North River	from county road R-63 to Badger Creek, Warren Co.	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 2002 and 2004	Y	Low
5a	IA 04-LDM-03085-L_0	Cedar Lake	Madison Co.; entire lake	drinking water	atrazine	new impairment: average level of atrazine > MCL	Syngenta, Inc. voluntary monitoring program, 2000-04	N	Medium
5a	IA 04-RAC-0010_1	Raccoon River	mouth to the Polk/Dallas county line	primary contact	indicator bacteria	geometric mean > WQ criterion	ISU/ACOE, DMWW, & IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 04-RAC-0010_1	Raccoon River	mouth to the Polk/Dallas county line	drinking water	nitrate	> 25% of samples exceed MCL	ISU/ACOE, DMWW, & IDNR/UHL ambient WQ monitoring, 2002-04	Y	High

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5a	IA 04-RAC-0010_2	Raccoon River	Polk/Dallas co. line to confluence of N & S raccoon rivers	primary contact	indicator bacteria	geometric mean > WQ criterion	ISU/ACOE, DMWW, & IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 04-RAC-0010_2	Raccoon River	Polk/Dallas co. line to confluence of N & S raccoon rivers	drinking water	nitrate	> 25% of samples exceed MCL	ISU/ACOE, DMWW, & IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 04-RAC-0040_1	North Raccoon River	from Buttrick Cr. to Short Cr.	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5a	IA 04-RAC-0040_5	North Raccoon River	from Camp Cr. (Calhoun Co.) to Indian Cr. (Sac Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5b	IA 04-RAC-0040_5	North Raccoon River	from Camp Cr. (Calhoun Co.) to Indian Cr. (Sac Co.)	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 1999	Y	Low
5a	IA 04-RAC-0040_6	North Raccoon River	from Indian Cr. to Cedar Cr. (Sac Co.)	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	High
5b	IA 04-RAC-0040_6	North Raccoon River	from Indian Cr. to Cedar Cr. (Sac Co.)	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 1999	Y	Low
5a	IA 04-RAC-00475-L_0	Black Hawk Lake	Sac Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: trophic state indexes > 70	ISU statewide lakes survey, 2000-04	Y	High
5a	IA 04-RAC-00475-L_0	Black Hawk Lake	Sac Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: trophic state indexes > 70	ISU statewide lakes survey, 2000-04	Y	High
5b	IA 04-RAC-0050_2	North Raccoon River	from Co. Rd. M54 (Sac Co.) to DD 101, Buena Vista Co.	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 2004	N	Low

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5b	IA 04-RAC-0123_0	Marrowbone Creek	from mouth to Carroll Co. tributary	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or siltation)	low biotic index; continuous DO monitoring shows levels < 3 during night and < 5 during daytime	IDNR/UHL biological (REMAP) monitoring in 2002	Y	High
5b	IA 04-RAC-01695_0	Poor Farm Creek	mouth to headwaters, Buena Vista Co.	general use	biological	fish kill in 2004	IDNR fish kill investigation	N	Low
5a	IA 04-RAC-0200_3	Middle Raccoon River	from Panora drinking water intake to Lake Panorama dam	drinking water	nitrate	Four notices of MCL violations for nitrate issued by Panora from 2000-2002.	IDNR Water Supply Section	Y	High
5b	IA 04-RAC-02401_0	Mosquito Creek	from unnamed tributary north of Yale to headwaters, Guthrie Co.	general use	ammonia	fish kill in 2003	IDNR fish kill investigation	N	Low
5b	IA 04-RAC-0251_0	Brushy Creek	from Guthrie/Audubon Co. line to unnamed tributary 3 mi. NW Dedham	general use	biological (fish kill attributed to ammonia and organic enrichment/low DO)	fish kill in 2005; caused by animal waste	IDNR fish kill investigation	N	Low
5a	IA 04-UDM-0010_2	Des Moines River	from Center St. Dam (Des Moines) to I 80/35 bridge	primary contact	indicator bacteria	geometric mean > WQ criterion	DMWW monitoring, 2002-04	N	High
5a	IA 04-UDM-0010_2	Des Moines River	from Center St. Dam (Des Moines) to I 80/35 bridge	drinking water	nitrate	> 10% of samples exceed MCL	DMWW, IDNR/UHL, and ISU/ACOE monitoring, 2002-04	Y	High
5a	IA 04-UDM-0020-L_0	Saylorville Reservoir	Polk Co.; entire reservoir	primary contact	indicator bacteria	geometric mean > WQ criterion	ISU/ACOE beach monitoring, 2002-04	N	Low
5a	IA 04-UDM-0110_1	Beaver Creek	mouth to Polk/Dallas county line	aquatic life	TDS	Four of 36 samples > general WQS for TDS; viols either in January or October.	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Low
5a	IA 04-UDM-0140-L_0	Big Creek Lake	Polk Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	N	High
5b	IA 04-UDM-0170_0	Skillet Creek	mouth to Webster Co. tributary	aquatic life	biological (potentially includes ammonia and/or organic enrichment/low DO)	low biotic index believed due to WWTP discharge	IDNR/UHL biological (biocriteria) monitoring	Y	Low

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5a	IA 04-UDM-01880-L_0	Briggs Woods Lake	Hamilton Co.; entire lake	aquatic life	organic enrichment/low DO	fish kill in 2004, attributed to low dissolved oxygen and excessive macrophytes	IDNR fish kill investigation	N	High
5b	IA 04-UDM-0215_0	Lyons Creek	mouth (at Webster City) to headwaters	general use	biological	Fish kill in 2001; although traced to tile line, no cause/source identified.	IDNR fish kill investigation	Y	High
5a	IA 04-UDM-0247_0	Buttermilk Creek	mouth to headwaters, Wright Co.; at Goldfield	general use	organic enrichment/low DO	Citizen and IDNR documentation of evidence of human waste in stream; several narrative WQS violated.	IOWATER volunteer; IDNR follow-up investigation; IDNR biological monitoring in 2006	Y	High
5b	IA 04-UDM-0253_1	West Otter Creek	mouth to Wright-Hancock county line	general use	biological	Fish kill in 2000; pollutant suspected but no cause/source identified.	IDNR fish kill investigation	Y	Low
5b	IA 04-UDM-0300_1	Lizard Creek	mouth to unnamed tributary near Clare, Webster Co.	aquatic life	biological (potentially includes habitat alterations and siltation)	low biotic index	IDNR/UHL biological monitoring in 2002 and 2004	N	Low
5a	IA 05-CHA-0020-L_2	Rathbun Reservoir	South Fork Arm, Appanoose and Wayne counties	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index >70.	Army Corps of Engineers monitoring, 2002-04	N	Medium
5a	IA 05-CHA-0020-L_2	Rathbun Reservoir	South Fork Arm, Appanoose and Wayne counties	aquatic life	turbidity	impacts on sport fishery	IDNR Fisheries Bureau	N	Medium
5a	IA 05-CHA-0020-L_3	Rathbun Reservoir	Chariton Arm, Appanoose and Wayne counties	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index >70.	Army Corps of Engineers monitoring, 2002-04	N	Medium
5a	IA 05-CHA-0020-L_3	Rathbun Reservoir	Chariton Arm, Appanoose and Wayne counties	aquatic life	turbidity	impacts on sport fishery	IDNR Fisheries Bureau	N	Medium

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5a	IA 05-CHA-0030_1	Chariton River	from upper end of Rathbun Lake to Hwy 14, Lucas Co.	aquatic life	organic enrichment/low DO	violations of water quality criterion for dissolved oxygen	ISU/Rathbun watershed project monitoring, 2002-04	Y	Low
5a	IA 05-CHA-0030_1	Chariton River	from upper end of Rathbun Lake to Hwy 14, Lucas Co.	aquatic life	pH	violations of water quality criterion for (low) pH	ISU/Rathbun watershed project monitoring, 2002-04	Y	Low
5b	IA 05-CHA-0030_2	Chariton River	From Hwy 14 to Chariton Cr. (Lucas Co.)	aquatic life	biological (potentially includes siltation and/or habitat alterations)	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002 and IDNR Fisheries monitoring, 2000-02	Y	Low
5a	IA 05-CHA-00330-L_0	Centerville Reservoir Lower	Appanoose Co.; entire lake	drinking water	atrazine	average level of atrazine > MCL	Syngenta, Inc. voluntary monitoring program, 2000-04	Y	Medium
5b	IA 05-CHA-0057_0	Chariton River	mouth to head waters (Appanoose Co.)	aquatic life	biological	Fish kill in 2005 caused by spill of diesel fuel	IDNR fish kill investigation	N	Low
5b	IA 05-CHA-0060_1	South Fork Chariton River	mouth (at Rathbun Lake) to Ninemile Cr.	aquatic life	biological	low biotic index; should have been listed in 2004	IDNR Fisheries Bureau biological monitoring, 1999-2002	N	Low
5b	IA 05-CHA-0060_2	South Fork Chariton River	from Ninemile Creek to dam of Bob White Lake	aquatic life	biological	low biotic index; should have been listed in 2004	IDNR Fisheries Bureau biological monitoring, 1999-2002	N	Low
5b	IA 05-CHA-0062_0	Jordan Creek	mouth to unnamed tributary 2.5 mi. ESE Millerton, Wayne Co.	aquatic life	biological	low biotic index; should have been listed in 2004	IDNR Fisheries Bureau biological monitoring, 1999-2002	N	Low
5b	IA 05-CHA-0063_0	Jackson Creek	mouth to unnamed tributary 2 mi. ENE of Harvard, Wayne Co.	aquatic life	biological	low biotic index	IDNR Fisheries Bureau biological monitoring, 1999-2002	N	Low
5b	IA 05-CHA-0064_0	West Jackson Creek	mouth to unnamed tributary, Wayne Co.	aquatic life	biological	low biotic index	IDNR Fisheries Bureau biological monitoring, 1999-2002	Y	High

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5b	IA 05-CHA-0066_0	Ninemile Creek	mouth to unnamed tributary, Wayne Co.	aquatic life	biological	low biotic index; should have been listed in 2004	IDNR Fisheries Bureau biological monitoring, 1999-2002	N	Low
5b	IA 05-CHA-0067_0	Dick Creek	mouth to tributary in Section 18 T69N R22W, Wayne County	aquatic life	biological	low biotic index	IDNR Fisheries Bureau biological monitoring, 1999-2002	Y	High
5a	IA 05-CHA-00690-L_0	Bob White Lake	Wayne Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2000-02	Y	Low
5a	IA 05-CHA-0077_0	Fivemile Creek	mouth to Lucas Co. tributary	aquatic life	organic enrichment/low DO	worsening trend in levels of dissolved oxygen	ISU/Rathbun watershed project	N	Low
5a	IA 05-GRA-0040_0	Thompson River	from Iowa/Missouri state line to Long Cr., Decatur Co.	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL ambient WQ monitoring, 2000-04	Y	Low
5b	IA 05-GRA-0070_0	Weldon River	from Iowa/Missouri state line to Mormon Pool, Decatur Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring, 2003	N	Low
5b	IA 05-GRA-0080_0	Little River	from Iowa/ Missouri line to dam of Little River Lake	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring, 2002	Y	Low
5a	IA 05-GRA-00810-L_0	Little River Watershed Lake	Decatur Co.; entire lake	fish consumption	mercury	> IDNR/IDPH trigger level for 1 meal /week advisory; consumption advisory issued in 2006	fish contaminant (RAFT) monitoring	N	Low
5a	IA 05-GRA-01010-L_0	Nine Eagles Lake	Decatur Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	N	Medium
5a	IA 05-GRA-01010-L_0	Nine Eagles Lake	Decatur Co.; entire lake	fish consumption	mercury	> IDNR/IDPH trigger level for 1 meal /week advisory; consumption advisory issued in 2006	fish contaminant (RAFT) monitoring	N	Low

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5a	IA 05-GRA-01410-L_0	Thayer Lake	Union Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index > 70	ISU statewide lake survey, 2000-2004	Y	Low
5a	IA 05-GRA-01550-L_0	Home Pond	Decatur Co.; entire lake	drinking water	atrazine	average level of atrazine > MCL	Syngenta, Inc. voluntary monitoring program, 2002-204	Y	Low
5b	IA 05-GRA-0170_0	Lotts Creek	IA/MO line to Tuckers Creek, Ringgold Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring, 2003	N	Low
5b	IA 05-GRA-0180_0	Middle Fork Grand River	IA/MO line to Ringgold Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring, 2003	N	Low
5a	IA 05-GRA-01920-L_0	Loch Ayr	Ringgold Co.; entire lake	drinking water	atrazine	declining water quality trend	Syngenta, Inc. voluntary monitoring program, 2000-01	Y	Low
5b	IA 05-NOD-0030_2	East Nodaway River	from Long Branch (Taylor Co.) to Kemp Cr. (Adams Co.)	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring, 2004	N	Low
5b	IA 05-NOD-0070_0	Middle Nodaway River	from W. Fk. Middle Nodaway R. to Adair Co. tributary	aquatic life	biological (potentially including habitat alterations, organic enrichment, siltation, and turbidity)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1998 and 2004	Y	Low
5a	IA 05-NOD-00930-L_0	Viking Lake	Montgomery Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: Chl-a trophic state index = 68	ISU statewide lake survey	Y	Medium
5a	IA 05-NOD-00930-L_0	Viking Lake	Montgomery Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	N	Medium
5a	IA 05-NSH-00310-L_0	Cold Springs Lake	Cass Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: Chlorophyll-a trophic state index > 65.	ISU statewide lake survey, 2000-04	Y	Medium

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5a	IA 05-NSH-00310-L_0	Cold Springs Lake	Cass Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index > 65	ISU statewide lake survey, 2000-04	Y	Medium
5b	IA 05-NSH-0063_0	Davids Creek	mouth to Honey Cr., Audubon Co.	aquatic life	biological	Fish kill in 2004 caused by animal waste	IDNR fish kill investigation	N	Low
5b	IA 05-NSH-0090_3	West Nishnabotna River	from Elk Cr. at Irwin to Crawford-Carroll county line	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria and REMAP) monitoring in 2000 and 2003	N	Low
5b	IA 05-NSH-0090_4	West Nishnabotna River	from Crawford-Carroll Co. line to tributary NE of Manning	general use	biological (fish kill due to ammonia and organic enrichment/low DO: source unknown)	fish kill in 2001; caused by animal waste; no source identified.	IDNR fish kill investigation	Y	Low
5b	IA 05-NSH-0120_0	Silver Creek	from M. Silver Cr (Pottawattamie Co.) to L. Silver Creek, Shelby Co.	aquatic life	biological	low biotic index	information from IDNR Fisheries Bureau, 1998	Y	Low
5b	IA 05-NSH-0133_0	Jordan Creek	mouth to Spring Cr., Pottawattamie Co.	aquatic life	biological (potentially includes siltation)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2001	Y	Low
5a	IA 05-NSH-01440-L_0	Prairie Rose Lake	Shelby Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index = 65; Secchi trophic state index > 65.	ISU statewide lake survey, 2000-04	Y	Medium
5a	IA 05-NSH-01440-L_0	Prairie Rose Lake	Shelby Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	Y	Medium
5a	IA 05-PLA-0015-L_0	Sands Timber Lake	Taylor Co.; entire lake	aquatic life	turbidity	turbidity-related impacts on sport fishery related to siltation and/or common carp	IDNR Fisheries Bureau	N	Low

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5a	IA 05-PLA-00295-L_0	Green Valley Lake	Union Co.; entire lake	primary contact	algae	chlorophyll-a trophic state index	ISU statewide lake survey, 2000-04	Y	Medium
5a	IA 05-PLA-00335-L_0	Lake of Three Fires	Taylor Co.; entire lake	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	N	Medium
5a	IA 05-PLA-00380-L_0	Wilson Park Lake	Taylor Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index > 65.	ISU statewide lake survey, 2000-04	N	Low
5a	IA 05-PLA-00380-L_0	Wilson Park Lake	Taylor Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Low
5a	IA 05-PLA-00380-L_0	Wilson Park Lake	Taylor Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Low
5b	IA 05-PLA-0040_1	West Branch One Hundred and Two River	mouth to M. Br. 102 R. NW of Gravity, Taylor Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1995	Y	Low
5a	IA 05-PLA-00430-L_0	Windmill Lake	Taylor Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: trophic state index for chlorophyll-a = 64 and Secchi = 67.	ISU statewide lakes survey, 2000-04	Y	Low
5a	IA 05-PLA-00430-L_0	Windmill Lake	Taylor Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Low
5a	IA 05-PLA-00430-L_0	Windmill Lake	Taylor Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Low
5a	IA 05-PLA-00430-L_0	Windmill Lake	Taylor Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: trophic state index for chlorophyll-a = 64 and Secchi = 67.	ISU statewide lakes survey, 2000-04	Y	Low
5b	IA 05-TAR-0020_0	West Tarkio Creek	IA/MO line to Page Co. tributary SE of Essex	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 1995 (biocriteria) and 2004 (REMAP)	Y	Low

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5b	IA 06-BSR-0010_3	Big Sioux River	from Brule Cr. (SD) to Indian Cr. in NW Plymouth Co.	aquatic life	biological	Fish kill in 2002	IDNR and South Dakota joint investigation of a 2002 fish kill	Y	Low
5b	IA 06-BSR-0021_0	Perry Creek	from mouth to unnamed tributary in Plymouth Co.	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2004	N	Low
5b	IA 06-BSR-0023_0	Broken Kettle Creek	from mouth to unnamed tributary in Plymouth Co.	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002	Y	Low
5a	IA 06-BSR-0029_0	Sixmile Creek	mouth to Sioux Co. tributary	aquatic life	ammonia	violations of chronic WQ criterion	IDNR/UHL TMDL monitoring in 2002	Y	Low
5b	IA 06-BSR-0029_0	Sixmile Creek	mouth to Sioux Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000;	N	Low
5b	IA 06-BSR-0030_0	Rock River	from mouth to L. Rock R. near Doon (Lyon Co.)	aquatic life	biological (fish kill attributed to ammonia and organic enrichment/low DO: source unknown)	fish kill in 2002; caused by animal waste; no source identified.	IDNR fish kill investigation	Y	Low
5b	IA 06-BSR-0035_0	Dry Creek	mouth to headwaters in S 32, T97N, R45W, Sioux Co.	general use	biological	overwhelming evidence of impacts: no fish found in IDNR/UHL biological assessments in 2004 and 2005.	IDNR/UHL biological (REMAP) monitoring in 2004 and 2005	N	Low
5b	IA 06-BSR-0065_0	unnamed tributary to L. Rock R.	mouth to headwaters in Lyon Co.	general use	ammonia	fish kill in 2005	IDNR fish kill investigation	N	Low
5b	IA 06-BSR-0070_3	Otter Creek	from Lyon/Osecola co. line to tributary at Sibley	aquatic life	low dissolved oxygen	fish kills in 2002 and 2004	IDNR fish kill investigations	N	
5b	IA 06-BSR-0072_0	Otter Creek	from unnamed tributary at Sibley to IA/MN state line	aquatic life	biological	fish kill in 2001	IDNR fish kill investigations	Y	Low

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5b	IA 06-BSR-0080_0	Mud Creek	from mouth (at Doon, Lyon Co.) to the IA/MN state line	aquatic life	biological	fish kill in 2003; low biotic index	IDNR fish kill investigation in 2003; IDNR/UHL biological monitoring in 2004 (biocriteria).	N	Low
5a	IA 06-FLO-0010_0	Floyd River	mouth to W. Br. Floyd R. near Merrill (Plymouth Co.)	aquatic life	copper	violations of chronic WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	Low
5a	IA 06-FLO-0010_0	Floyd River	mouth to W. Br. Floyd R. near Merrill (Plymouth Co.)	aquatic life	lead	violations of chronic WQ criterion	IDNR/UHL ambient WQ monitoring, 2002-04	N	Low
5b	IA 06-FLO-0020_1	Floyd River	from W. Br. Floyd R. (Plymouth Co.) to city of Alton (Sioux Co.)	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 2004 (REMAP).	N	Low
5b	IA 06-FLO-0020_2	Floyd River	from city of Alton to N. Fk. Floyd R., O'Brien Co.	aquatic life	biological (fish kills attributed to ammonia and organic enrichment/low DO: source unknown)	Five fish kills since 1997; two in 2002; one in 2003; low biotic index	IDNR fish kill investigations; IDNR/UHL biological monitoring in 1999 (biocriteria) and 2003 (REMAP).	Y	Low
5b	IA 06-FLO-0040_0	West Branch Floyd River	from Orange City Slough to Sioux Co. tributary	aquatic life	biological (potentially includes siltation and/or other habitat alterations)	Fish kill in 2003; low biotic index	IDNR fish kill investigation; IDNR/UHL biological (biocriteria) monitoring in 2001	Y	Low
5b	IA 06-FLO-0065_0	Willow Creek	from Plymouth Co. tributary to headwaters	aquatic life	biological	fish kill in 2003	IDNR fish kill investigation	N	Low
5a	IA 06-LSR-0030_1	Little Sioux River	from Hwy 3 at Cherokee to Waterman Cr. (O'Brien Co.)	primary contact	indicator bacteria	> 10% of samples exceed single-sample maximum criterion	IDNR/UHL ambient WQ monitoring, 2002-04	Y	Low
5a	IA 06-LSR-00315-L_0	Dog Creek Lake	O'Brien Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: trophic state index = 65 for Secchi (= 56 for chlorophyll-a).	ISU statewide lake survey, 2000-04	Y	Low

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5b	IA 06-LSR-0040_3	Little Sioux River	from W. Fk. L. Sioux R. to IA/MN state line	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 2003 (biocriteria).	N	Low
5b	IA 06-LSR-0131_0	West Fork Little Sioux River	from Cherokee Co. tributary to headwaters	general use	biological	fish kill in 2004, potentially pollutant-related	IDNR fish kill investigation	N	Low
5b	IA 06-LSR-0143_0	Johns Creek	mouth to Rathburn Cr., Plymouth Co.	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 2004 (REMAP).	N	High
5b	IA 06-LSR-0170_0	Mill Creek	mouth to Whiskey Cr., O'Brien Co.	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or siltation)	low biotic index	IDNR/UHL biological monitoring in 1998 and 2002	Y	Low
5b	IA 06-LSR-0223_0	Willow Creek	mouth to unnamed tributary 4 miles SSE of Royal, Clay Co.	aquatic life	biological (potentially includes organic enrichment/low DO and/or ammonia)	declining trend in biotic index from 1999 to 2002; pollutant (manure)-caused fish kills in 2001 and 2002	IDNR/UHL biological monitoring in 1999 (biocriteria) and 2002 (REMAP); IDNR fish kill investigations in 2001 and 2002.	Y	Low
5a	IA 06-LSR-02390-L_0	Lost Island Lake	Palo Alto Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index > 70.	ISU statewide lake survey, 2000-04	Y	High
5a	IA 06-LSR-02840-L_2	West Okoboji Lake	Emersons Bay	primary contact	indicator bacteria	geometric mean > WQ criterion	IDNR/UHL beach monitoring, 2002-04	N	Medium
5a	IA 06-LSR-0300_0	Milford Creek	mouth to unnamed tributary 1 mi. SE of Milford	aquatic life	ammonia	violations of chronic water quality criteria in 2004	IDNR/UHL TMDL-related monitoring	N	Low
5b	IA 06-LSR-0300_0	Milford Creek	mouth to unnamed tributary 1 mi. SE of Milford, Dickinson Co.	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or unknown toxicity)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2001	Y	(TMDL Submitted 9/14/07)

IR Category	Waterbody ID Number	Waterbody Name	Segment Description	Designated Use Impaired	Cause / Stressor	Rationale for 303(d) listing	Data Source	Impairment also on 2004 list?	Priority for TMDL development
5b	IA 06-LSR-0305_0	Milford Creek	from unnamed tributary 1 mi. SE of Milford to Lower Gar Lake, Dickinson Co.	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or unknown toxicity)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2001	Y	(TMDL Submitted 9/14/07)
5a	IA 06-LSR-03105-L_0	Silver Lake	Dickinson Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 80 (chlorophyll-a trophic state index = 58).	ISU statewide lake survey, 2000-04	Y	High
5b	IA 06-WED-0010_1	Keg Creek	mouth to Little Keg Cr. (Pottawattamie Co.)	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1997 and 2001	Y	Low
5b	IA 06-WED-0010_2	Keg Creek	from Little Keg Cr. to Harrison Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002	Y	Low
5b	IA 06-WED-0020_1	Mosquito Creek	mouth to drinking water intake for Lake Manawa, Pottawattamie Co.	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000	Y	Low
5b	IA 06-WED-0020_2	Mosquito Creek	from drinking water intake at Lake Manawa to L. Mosquito Cr.	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000	Y	Low
5b	IA 06-WED-0020_3	Mosquito Creek	from L. Mosquito Cr. to Spring Cr. near Persia, Harrison Co.	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000	Y	Low
5a	IA 06-WED-00270-L_0	Arrowhead Pond	Pottawattamie Co.; entire lake	aquatic life	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium
5a	IA 06-WED-00270-L_0	Arrowhead Pond	Pottawattamie Co.; entire lake	primary contact	pH	> 10% of samples violate WQ criteria	ISU statewide lakes survey, 2000-04	N	Medium

IR Category	Waterbody ID Number	Waterbody Name	Segment Description	Designated Use Impaired	Cause / Stressor	Rationale for 303(d) listing	Data Source	Impairment also on 2004 list?	Priority for TMDL development
5a	IA 06-WED-00270-L_0	Arrowhead Pond	Pottawattamie Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 66 (chlorophyll-a trophic state index = 62).	ISU statewide lake survey, 2000-04	Y	Medium
5b	IA 06-WED-00270-L_0	Arrowhead Pond	Pottawattamie Co.; entire lake	aquatic life	organic enrichment/low DO	fish kill in summer 2005	IDNR fish kill investigation	N	Medium
5a	IA 06-WEM-0010_0	Missouri River	from IA/MO line to Platte R.	primary contact	indicator bacteria	listing by adjacent state in 2006	Nebraska DEQ, 2006 IR	N	Low
5a	IA 06-WEM-0020_1	Missouri River	from Platte R. to water supply intake at Council Bluffs	primary contact	indicator bacteria	listing by adjacent state in 2006	Nebraska DEQ, 2006 IR	N	Low
5a	IA 06-WEM-0020_2	Missouri River	from water supply intake at Council Bluffs to Boyer R.	drinking water	arsenic	Violations of WQS (human health criteria) in all samples	USGS NASQAN ambient WQ monitoring, 2002-04	Y	Low
5a	IA 06-WEM-0020_2	Missouri River	from water supply intake at Council Bluffs to Boyer R.	primary contact	indicator bacteria	geometric mean > WQ criterion; listing by adjacent state	Nebraska DEQ ambient WQ monitoring in 2000; review of Nebraska's 2006 IR	Y	Low
5a	IA 06-WEM-00235-L_0	Lake Manawa	Pottawattamie Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index = 64	ISU statewide lake survey, 2000-04	Y	Medium
5a	IA 06-WEM-00235-L_0	Lake Manawa	Pottawattamie Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 75	ISU statewide lake survey, 2000-04	Y	Medium
5a	IA 06-WEM-00265-L_0	Carter Lake	Pottawattamie Co.; entire lake	primary contact	indicator bacteria	fecal geometric means > WQS; listing by adjacent state	Nebraska DEQ, 2004 Integrated Report	Y	Low
5a	IA 06-WEM-00265-L_0	Carter Lake	Pottawattamie Co.; entire lake	fish consumption	PCBs	Nebraska issued fish consumption advisory	Nebraska DEQ, 2004 IR	Y	Low
5a	IA 06-WEM-0030_0	Missouri River	from Boyer R. to L. Sioux R.	primary contact	indicator bacteria	listing by adjacent state in 2006	Nebraska DEQ, 2004 IR	N	Low

IR Category	Waterbody ID Number	Waterbody Name	Segment Description	Designated Use Impaired	Cause / Stressor	Rationale for 303(d) listing	Data Source	Impairment also on 2004 list?	Priority for TMDL development
5a	IA 06-WEM-00340-L_0	Desoto Bend	Harrison Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 67	ISU statewide lake survey, 2002-04	Y	Low
5a	IA 06-WEM-0040_1	Missouri River	from L. Sioux R. to Elm Cr. at Decatur, NE	primary contact	indicator bacteria	listing by adjacent state in 2006	Nebraska DEQ, 2004 IR	N	Low
5a	IA 06-WEM-0040_2	Missouri River	from Elm Cr. at Decatur, NE to Omaha Cr. Ditch near Homer, NE	primary contact	indicator bacteria	listing by adjacent state in 2006	Nebraska DEQ, 2004 IR	N	Low
5a	IA 06-WEM-0040_3	Missouri River	from Omaha Cr. Ditch near Homer, NE to Big Sioux R.	primary contact	indicator bacteria	listing by adjacent state in 2006	Nebraska DEQ, 2004 IR	N	Low
5a	IA 06-WEM-00445-L_0	Blue Lake (aka, Lewis And Clark Lake)	Monona Co.; entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index = 65	ISU statewide lake survey, 2000-04	Y	High
5a	IA 06-WEM-00445-L_0	Blue Lake (aka, Lewis And Clark Lake)	Monona Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 73	ISU statewide lake survey, 2000-04	Y	High
5a	IA 06-WEM-00485-L_0	Browns Lake	Woodbury Co.; entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 66; (chlorophyll-a trophic state index = 58)	ISU statewide lake survey, 2000-04	Y	Low
197	**No. of Category 5a impairments**								
162	**No. of Category 5b impairments**								
359	**Total No. of Impairments**								